FIG. 1A

	10													50 TGCCATGTAGTGCACGCAGGACATCA							
GAA	TTC	:GGC	CACG	AGC	TGA	.GGG	GTG	AGC	CAA	GCC	CTG	CCA	TGI	'AGT	GCA	CÇC	AGG	ACA	TCA		
		7	70						90						1	10	•				
ACA	AAC	ACA	GAT	AAC	AGG	AAA	TGA	TCC	CATT	CCC	TGT	GGT	CAC	TTA	TTC	TAA	AGG	CCC	CAA		
		13	30						150						1	70			•		
CCI	TCA	AAG	TTC	AAG	TAG	TGA	TAT	GGA	ATGA	CTC	CAC	AGA	AAG	GGA	GCA	GTC	ACG	CCI	TAC		
							M	D	D	S	Т	E	R	E	Q	S	R	L	${f T}$		
		19	0						210						2	30					
TTC	TTG	CCI	TAA	GAA	AAG	AGA	AGA	raa.	GAA	ACT	GAA	GGA	GTG	TGT	TTC	CAT	CCI	CCC	'ACG		
S	С	L	K	K	R	E	E	M	K	L	K	E	С	V	S	I	L	P	R		
		25	0						270						2	90					
GAA	GGA	AAG	CCC	CTC	TGT	CCG	ATC	CTC	CAA	AGA	CGG	AAA	GCT	GCT	GGC	TGC	AAC	CTI	'GCT		
K	E	S	P	S	V	R	S	S	K	D	G	K	L	L	Α	A	T	Ļ	L		
		31	.0						330						. 3	50					
GCT	יככר	יא רייוז		~~~		~~~											~~~	~~~			
	$\omega \omega$	$x \sim 1$	$T \cup U$	GIC	TTG	CIG	CCT	CAC	GGT	GGT	GTC	$\mathbf{T}\mathbf{T}\mathbf{T}$	CTA	.CCA	GGT	GGC	CGC	CCI	GCA		
		L	L						V_						V	A					
<u>L</u>	A	1 37	L '0	S	С	С	L	Т	<u>v</u> 390	V	S	F	<u>Y</u>	0	<u>V</u>	<u>A</u> 10	A	<u>L</u>	Q		
<u>L</u> AGG	A GGA	L 37 CCT	L O	S CAG	C CCT	C CCG	L GGC	T AGA	V 390 GCT	V GCA	S GGG	F CCA	Y CCA	O .CGC	V 4 GGA	A 10 GAA	A	<u>L</u>	Q		
<u>L</u>	A	L 37 CCI L	L OGGC A	S	C CCT	C CCG	L GGC	T AGA	V 390 AGCTO L	V GCA	S GGG	F CCA	Y CCA	O .CGC	V 4 GGA E	A 10 GAA K	A GCT	<u>L</u>	Q 'AGC		
<u>L</u> AGG G	A GGA D	37 CCT L 43	L O GGC A	S CAG S	C CCT L	C CCG R	L GGC A	T AGA E	V 390 GCT L 450	V GCA Q	S GGG G	F CCA H	Y CCA H	O CGC A	V 4 GGA E 4	A 10 GAA K 70	A GCT L	<u>L</u> GCC P	Q AGC A		
L AGG G AGG	A GGA D	37 CCT L 43	L O A O AGC	S CAG S	C CCT L CAA	C CCG R	L GGC A CGG	T AGA E CCI	V 390 AGCTO L 450 AGGAO	V GCA Q GGA	S GGG G AGC	F CCA H TCC	Y CCA H AGC	O CGC A TGT	V 4 GGA E 4 CAC	A 10 GAA K 70 CGC	GCT L GGG	L GCC P ACT	Q AGC A GAA		
<u>L</u> AGG G	A GGA D	37 CCT L 43 AGG	L OGGC A OGGC A	S CAG S	C CCT L CAA	C CCG R	L GGC A	T AGA E CCI	V 390 AGCTV L 450 AGGA(E	V GCA Q GGA	S GGG G	F CCA H TCC	Y CCA H AGC	O CGC A TGT	V 4 GGA E 4 CAC	A 10 GAA K 70 CGC	A GCT L	L GCC P ACT	Q AGC A		
L AGG G AGG	A GGA D AGC A	L 37 CCT L 43 AGG G 49	L O NGGC A O AGC A	S CCC P	C L CAA K	C CCG R GGC A	GGC A CGG G	AGA E CCI L	V 390 AGCTO L 450 AGGAO E 510	V GCA Q GGA E	S G G AGC A	F CCA H TCC	Y CCA H AGC	CGC A TGT V	V 4 GGA E 4 CAC	A GAA K 70 CGC A	GCT L GGG G	L GCC P ACT L	Q AGC A GAA K		
L AGG G AGG	A GGA D AGC A	L 37 CCT L 43 AGG G 49	L O NGGC A O AGC A	S CCC P	CCT L CAA K	CCGR	L GGC A CGG G	AGA CCI	V 390 AGCTV L 450 YGGAG E 510	CAA	GGG G AGC A	F CCA H TCC P	CCA H AGC A	CGC A TGT V	V 4 GGA E 4 CAC T 5 CAG	A GAA K 70 CGC A 30 CAG	GCT L GGG G	L GCC P ACT L	Q AGC A GAA K		
L AGG G AGG	A GGA D AGC A	L 37 CCT L 43 AGG G 49	L O NGGC A O AGC A	S CCC P	CCT L CAA K	CCGR	GGC A CGG G	AGA CCI	V 390 AGCTO L 450 AGGAO E 510	CAA	GGG G AGC A	F CCA H TCC P	CCA H AGC A	CGC A TGT V	V 4 GGA E 4 CAC T 5 CAG	A GAA K 70 CGC A	GCT L GGG G	L GCC P ACT L	Q AGC A GAA K		
L AGG G AGG G	A GGA D AGC A	L 37 CCT L 43 AGG G 49	L O A O A A O A C A	S CAG S CCC P	CCT L CAA K	CCGR	L GGC A CGG G	AGA CCI	V 390 AGCTV L 450 YGGAG E 510	CAA	GGG G AGC A	F CCA H TCC P	CCA H AGC A	CGC A TGT V	V 4 GGA E 4 CAC T 5 CAG	A GAA K 70 CGC A 30 CAG	GCT L GGG G	L GCC P ACT L	Q AGC A GAA K GCG		
L AGG G AGG G AAT	A GGA D AGC A CTT	L 37 CCT L 43 AGG G 49 TGA E 55	L O OGGC A O AGC ACC	CAG S CCC P ACC	CCT L CAA K AGC A	C R GGC A TCC	L GGC A CGG G AGG	AGA E CCT L AGA E	V 390 AGCTV L 450 YGGAC E 510 AGGC	V GCA Q GGA E CAA N	S G G AGC A CTC	F CCA H TCC P CAG	CCA H AGC A TCA	CGC A TGT V GAA N	V 4 GGA E 4 CAC T 5 CAG	A 10 GAA K 70 CGC A 30 CAG R	GCT L GGG G AAA N	GCC P ACT L TAA K	Q AGC A GAA K GCG R		

FIG. 1B

•	610							630						650					
TGA	AAC	ACC	AAC	TAT	ACA	AAA	AGG	ATC	ATT	CAC	ATT	TGT	TCC	ATG	GCT	TCT	CAG	CTT	TAA
E	${f T}$	P	${f T}$	I	Q	K	G	S	Y	\mathbf{T}_{\cdot}	F	V	P	W	L	L	S	F	K
		67	0						690						7	10			
AAG	GGG	AAG	TGC	CCT	AGA	AGA	AAA	AGA	GAA'	raa.	AAT.	ATT	GGT	CAA	AGA	AAC	TGG	TTA	CTT
R	G	S	Α	L	E	E	K,	E	N	K	I	L	V	K	E	T	G	Y	F
		73	0						750	:		•			7	70			
TTT	TAT	ATA'	TGG'	TCA	GGT	$\mathbf{T}\mathbf{T}\mathbf{T}$	АТА	TAC	'TGA'	raa(GAC	CTA	CGC	CAT	GGG.	ACA	TCT	AAT	TCA
F	I	Y	G	Q	V	L	Y	T	D	K	T	Y	A	M	G	Н	L	Ĭ	Q
		79	0	_					810						8	30		•	_
GAG	GAA	GAA	GGT	CCA'	TGT	CTT	TGG	GGA	TGAZ	YPTA	GAG'	TCT	GGT	GAC	TTT	GTT	TCG	ATG	TAT
R	K	K	V	Н	V	F	G	D	E	L	S	L	V	${f T}$	L	F	R	С	Ī
		85	0						870						. 8:	90			
TCA	AAA'	TAT	GCC'	IGA.	AAC.	ACT.	ACC	CAA	TAAT	rtc	CTG	CTA'	TTC	AGC	TGG	CAT	IGC.	AAA	ACT
Q	N	M	P	E	${f T}$	Ĺ	P	N	N	S	С	Y	S	Α	G	Ι	A	K	L
		91	0						930						9!	50			
GGA	AGA	AGG	AGA!	I'GA	ACT	CCA	ACT	TGC	AATA	ACC	AAG:	AGA	AAA'	TGC	ACA	ААТ	ATC	ACT	GGA
E	E	G	D	E	L	Ō	L	A	I	P	R	E	N	Α	Q	I	S	L	D
. •		970	0			~			990						10:				_
TGG	AGA'	IGT	CAC	ATT.	LLI.	TGG'	TGC.	ATT	GAAA	CTC	CTY	GTG	ACC'	TAC	•		CATY	GTC'	TGT
G	D	V	${f T}$	F	F	G	A	L	\mathbf{K}^{\pm}	L	L								
		103	0					1	050						10	70			
AGC"	rat'	rtt	CCT	CCC	rtt	CTC'	IGT.	ACC	TCTA	AGZ	\AG2	AAA	GAA'	TCT.	AAC'	IGA.	AAA'	TAC	CAA
٠	:	1090	0					1	110						113	30			
AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AGT	AGTT	'AA	\AA/	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA
	:	1150)					1	170										
AAA	AAA	AAA	AAA	AAA	AAA	AAA	ACTY	CGG	AGGG	GG									
																	•		

FIG. 2A

			10						3	0						50			
GΑ	ATT	CGG	CAC	GAG	CTC	CAA	AGG	CCT	AGA	CCT	TCA	AAG	TGC	TCC	TCG	TGG	AAT	GGA	TGAG
																	M	D	E
			70						. 9	0						110			
TC	TGC	AAA	GAC	CCT	GCC	ACC	ACC	GTG	CCT	CTG	TTT	TTG	CTC	CGA	GAA	AGG	AGA	AGA	TATG
S	A	K	\mathbf{T}	L	P	P	P	C	L	C	F	C	S	E	K	G	E	D	M
		1	30						15	0 .		•				170			
AΑ	AGT	GGG	ATA	TGA	TCC	CAT	CAC	TCC	GCA	GAA	GGA	GGA	GGG	TGC	CTG	GTT	TGG	GAT	CTGC
K	V	G	Y	D _i	P	I	\mathbf{T}	P	Q	K	E	E	G.	Α	W	F	G	I	С
		1	90						21	0						230			
AG	GGA	TGG	AAG	GCT	GCT	GGC	TGC	TAC	CCT	CCT	'GCT	GGC	CCT	GTT	GTC	CAG	CAG	TTT	CACA
R	D	G	R	L	L	A	A	T	L	L	L	Α	L	L	S	S	S	F	\mathbf{T}
		2	50						27	0					•	290			
GC	GAT	GTC	CTT	GTA	CCA	GTT	GGC	TGC	CTT	GCA	AGC	AGA	CCT	GAT	GAA	.CCT	GCG	CAT	GGAG
A	M	S	L	Y	0	L	Α	A	<u>L</u>	Q	A	D	L	M	N	L	R	M	E
		. 3	10						33	0						350			
CI	GCA	GAG	CTA	CCG	AGG	TTC	AGC	AAC	ACC.	AGC	CGC	CGC	GGG	TGC	TCC	AGA	GTT	GAC	CGCT
	0															E			A
	~		70						39							410			
GG	AGT	CAA	ACT	CCT	GAC	ACC	GGC	AGC	TCC	TCG	ACC	CCA	CAA	CTC	CAG	CCG	CGG	CCA	CAGG
	V			L			A									R			R
		4	30						45	0						470			
AΑ	CAG	ACG	CGC	TTT	CCA	GGG	ACC	AGA	GGA	AAC	AGA	ACA	AGA	TGT	AGA	CCT	CTC	AGC	TCCT
N	R	R	A	F	Q	G	P	E	E	\mathbf{T}	E	Q	D	V	D	L	S	Α	P
		4	90		_				51	0						530			
CC	TGC	ACC	ATG	CCT	GCC	TGG	ATG	CCG	CCA	TTC	TCA	ACA	TGA	TGA	TAA	TGG	AAT	GAA	CCTC
P	Α	P	С	L	P	G	С	R	Н	S	Q	Н	. D	D	N	G	M	N	L
		5	50						57	0	_					590			
AG	AAA	CAT	CAT	TCA	AGA	CTG	TCT	GCA	GCT	GAT	TGC	AGA	CAG	CGA	CAC	GCC	GAC	TAT	ACGA
																P			R

FIG. 2B

610									630							650			
AA	AGG	AAC'	TTA	CAC	ATT	TGT	TCC.	ATG	GCT'	TCT	CAG	CTT	TAA	AAG	AGG	AAA	TGC	CTT	GGAG
K	G	${f T}$	Y	T	F	V	P	W	L	L	S	F	K	R	G	N	Α	L	E
		6	70		•				69	0						710			
GA	GAA	AGA	GAA	CAA	AAT	AGT	GGT	GAG	GCA	AAC	AGG	CTA'	ľľľ	CTT	CAT	CTA	CAG	CCA	GGTT
E	K	E	N	K	I	V	V	R	Q	T	G	Y	F	\mathbf{F}	I	Ÿ	S	Q	V
		7:	30						75	0						770			
CT	ATA(CAC	GGA	CCC	CAT	CTT	TGC'	YAT	GGG'	ICA	TGT	CAT	CCA	GAG	GAA	GAA	AGT	ACA	CGTC
L	Y	T	D	P	I	F	A	M _.	G	H	V	I	Q	R	K	K	V	H	V
	•	7	90						81	0						830			
TT	TGG(GGA(CGA	GCT	GAG	CCT	GGT	GAC	CCT	GTT	CCG	ATG	TAT.	rca(GAA	TAT	GCC	CAA	AACA
F	G	D	E	\mathbf{L}	S	L	V	T	L	F	R	C	I	Q	N	M	P	K	${f T}$
	850 870 890																		
CT	GCC	CAA	CAA'	TTC	CTG	CTA	CTC	GC'	rgg(CAT	CGC	GAG	GCT	GGA	AGA	AGG	AGA	TGA	GATT
Ĺ	P	N.		S	С	Y	S	A	G	I	A	R	L	E	E	G	D	E	I
		_	10						930							950			
CA	GCT ¹	rgcz	TAA	TCC	TCG	GGA	GAA'	rgc2	ACA(GAT		ACG		CGG	AGA	.CGA	CAC	-	CTTT
Q	L	A	I	P	R	E	N.	A	Q	Ι	S	R	N	G	D	D	T	F	F
		9'	70						990						. –	010	~~~	~~~	~~~
GG'	TGC(CCT				GTA	ACT	CAC	l'IG(CTG	GAG	TGC(GTG	ATC(CCC	TTC	CCT	CGT(CTTC
G	A	L	K	L	L					_						000			
		103						_	1050	_						070		~~~	2002
TC'	IGT			GAG	GGA	GAA	ACA(AAA	AAC'	I'AA/	AAG			AAA	GCC	GTCA
		109						_	111(-					_	130			
GC	GAA			CTC	GTG	ACC	CGT'				ICC	AAA	CCA	GGA.			ACA	GAC	AGCC
		11!	50						1170	0					1	190			

The Hall there to the free hand the second that the second the hand the second that the second the second that the second that

FIG. 3A

50 RSSKDGK <u>LLA</u> GICRDGR <u>LLA</u>	100 KLPAGAGAPK ATPAAAGAPE PA.AGAP.	150 ET ETEQDVDLSA ET	200 QKGSYTFVPW RKGTYTFVPW .KG.YTFVPW
ILPRKESPSV TPQKEEGAWF	RAELQGHHAE RMELQSYRGS R.ELQ	RNKRAVQGPE RNRRAFQGPE RN.RA.QGPE	BVT <u>ODCLO LIADS</u> ETPTI LRNII <u>ODCLO LIADS</u> DTPTIQDCLQ LIADS.TPTI
SRLTSCLKKR EEMKLKECVS PCLCFCSEKG EDMKVGYDPI LCK. E.MK	<u>AAL</u> QGDLASL <u>AAL</u> QADLMNL AALQ.DLL	PGEGNSSQNS PRPHNSSRGH PNSS	BVTQDCLQ LIADSETPTI HSQHDDNGMN LRNIIQDCLQ LIADSDTPTIQDCLQ LIADS.TPTI
SRLTSCLKKR PCLCFCSEKG	CLTVVSFYOV SFTAMSLYOL TS.YQ.	LEEAPAVT AGLKIFEPPA LT AGVKLLTPAA T AG.KP.A	HSQHDDNGMN
1 MDDSTER.EQ MDESAKTLPP MD.S	100 ATLLLALLSC CLTVVSFYOV AALQGDLASL RAELQGHHAE KLPAGAGAPK ATLLLALLSS SFTAMSLYOL AALQADLMNL RMELQSYRGS ATPAAAGAPE ATLLLALLSTS.YQ. AALQ.DLL R.ELQPA.AGAP.	101 AGLEEAPAVT LT	151 PPAPCLPGCR
Hagp3 Magp3	Hagp3 Magp3 cons	Hagp3 Magp3 cons	Hagp3 Magp3 cons

FIG. 3B

	D,	٠ ٧	А	回	250
Hagp3	<u>LLSF</u> KR <u>GSAL</u>	$\overline{\mathbf{E}}\mathbf{E}\mathbf{K}\mathbf{E}\mathbf{N}\mathbf{K}\mathbf{I}\mathbf{L}\mathbf{V}\mathbf{K}$	SEKRGSAL EEKENKILVK ETGYFFIYGO VLYTDKTYAM GHLIORKKVH	<u>VLX</u> TDKT <u>YAM</u>	GHLIORKKVH
Magp3	LLSEKRGNAL	E EKENKIV <u>V</u> R	LLSEKRGNAL EEKENKIVVR OTGYFFIYSO VLYTDPIFAM GHVIORKKVH	VLXTDPIFAM	<u>GHVIO</u> RKKVH
cons	LLSFKRG.AL	EEKENKI.V.	LLSFKRG.AL EEKENKI.VTGYFFIY.Q VLYTDAM GH.IQRKKVH	VLYTDAM	GH. IQRKKVH

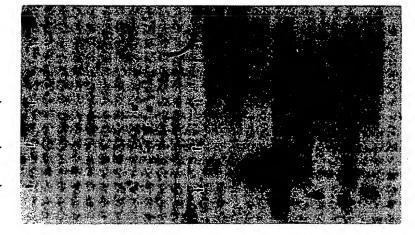
C	Ā	A	A
H 300	<u>LOLAI</u> PREN	<u>IOLAI</u> PRENA	. QLAIPRENA
	GIAKLEEGDE LOLAIPRENA	GIARLEEGDE	GIA. LEEGDE
U	TLPNNSCYSA	TLPNNSCYSA	TLPNNSCYSA GIA. LEEGDE
	LFRCIQNMPE	GDELSLVT LFRCIONMPK	GDELSLVT LFRCIQNMP.
251 F	VFGDELSLVT	VFGDELSLVT	VFGDELSLVT
	Hagp3	Magp3	cons

317	FGALKLL	FGALKLL	FGALKLL
н	FG7	FG7	FG1
301	QISLDGDV <u>TF</u>	QISRNGDD <u>TF</u>	QISGD.TF
·	Hagp3	Magp3	cons

FIG. 4B

day 7 embryo day 11 embryo day 15 embryo day 17 embryo

heart
brain
spleen
lung
liver
skeletal muscle
kidney
testis



4.4 kb -

2.4 kb -

1.35 kb -

FIG. 5A



FIG. 5C

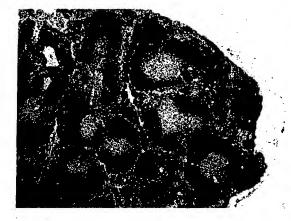


FIG. 5E



FIG. 5B

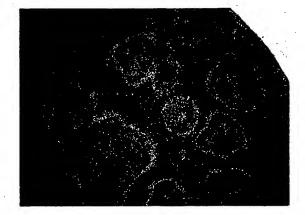


FIG. 5D

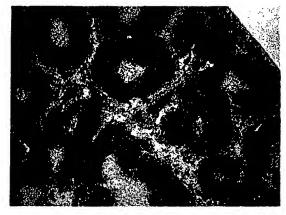


FIG. 5F



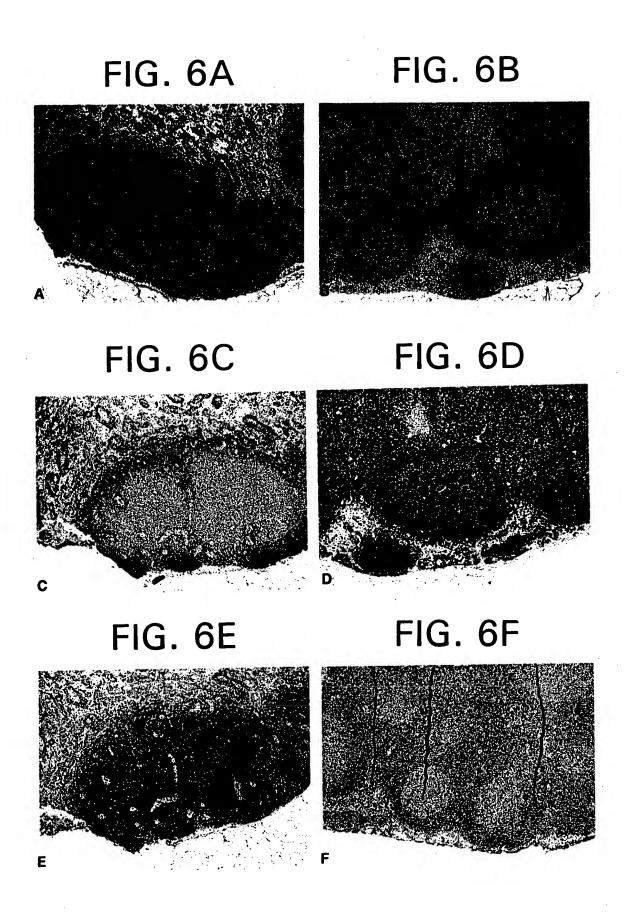


FIG. 7A

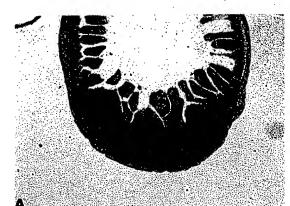


FIG. 7B

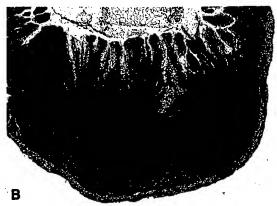


FIG. 7C

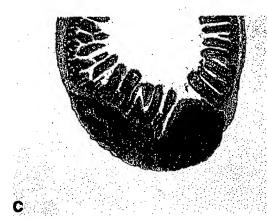


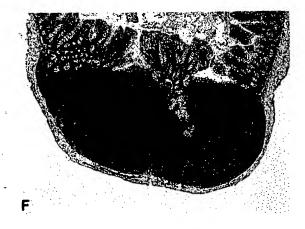
FIG. 7D



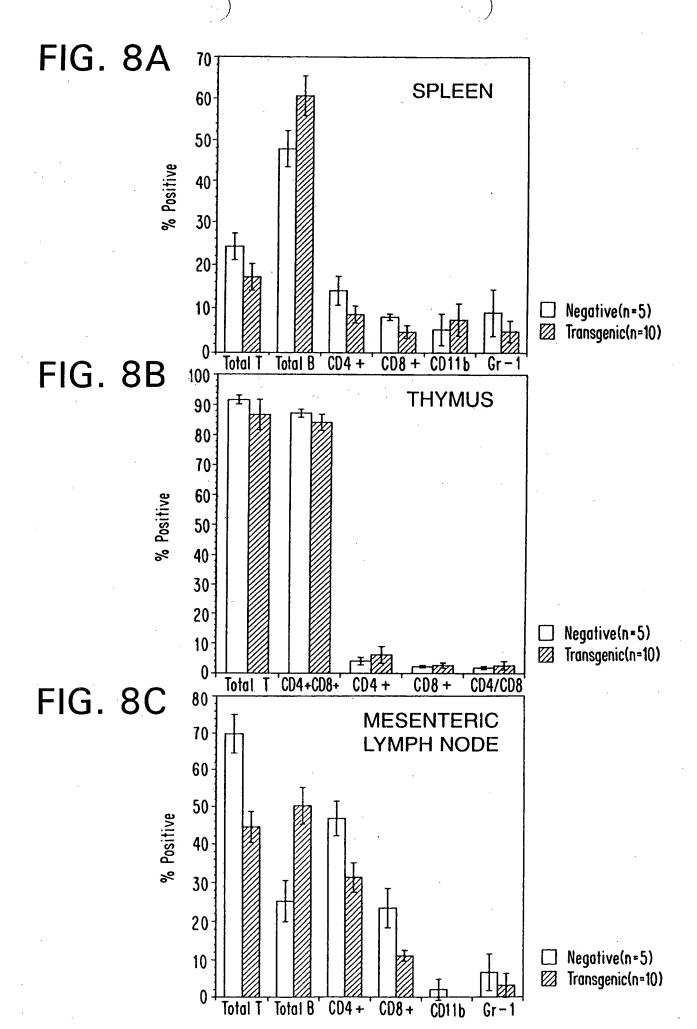
FIG. 7E



FIG. 7F



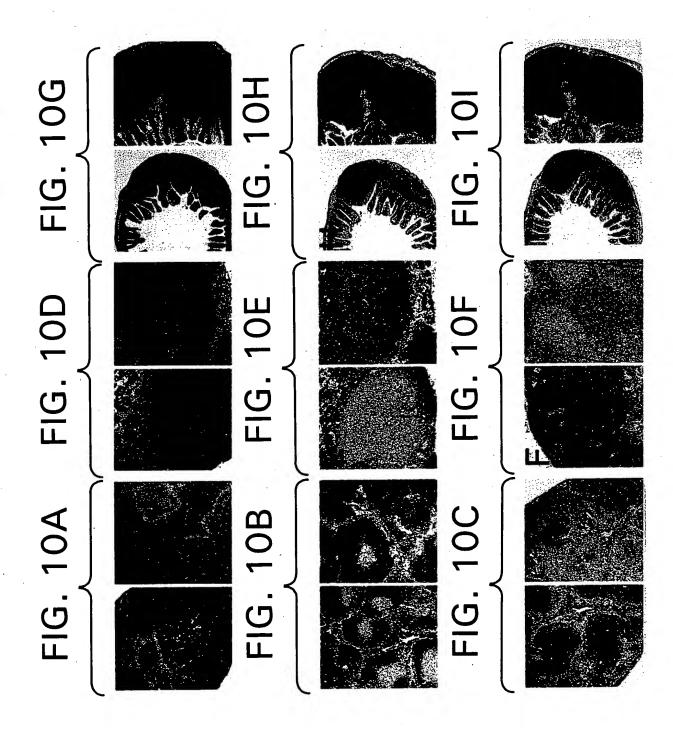
E



	-L Consensus PL Human Fast			Human	(PF Mouse CD40L	HL Human AGP3	HV Mouse AGP3	TD Mouse OPGL	TE Human OPGL	NT Human TRAIL	<pre>CD- Mouse TRAIL</pre>	7DL Human CD30L	'DI Mouse CD30L	tSV Human LyTβ	SI Mouse LyTβ	YL Human TNFβ	YL Mouse TNFβ	/LL Human TNFα	/LL Mouse TNF
D D/E loop	GLYFIYSQV-F+GQ-CPVLG1.YFVYSKVYFRGOSCNNL	GLYFVXSKVYFRGQSCNNQ	GLYFVYSKVYFRGQSCNSQ	GLYYIYAQVTFCSNREASSQA	GLYYVYTQVTFCSNREPSSQR	GYFFIYGQVLYT-DKTYAMG	GYFFIYSQVLYT-DPIFAMG	GKPEAQPFAHLTINAASIPSGSHKVTLSSWYHDRGWAKISM-MTLSNG-K-LRVNQDGFYYLYANICFRHHETSGSVPTD	GFYYLYANI CFRHHETSGDLA	ERGPORVAAHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSGH-SFLSN-LHLRNG-E-LVIHEKGFYYIYSQTYFRFQEEIKENT	GGRPÕKVAAHITGITRRSNSALIPISKDGKTLGQKIESWESSRKGH-SFLNH-VLFRNG-E-LVIEQEGLYYIYSQTYFRFQEAEDASKMVSKD-	GLYFIICQLQFLVQ-CPNNSV	GLYFIVCOLOFLVQ-CSAHSV	DLSPGLPAAHLIGAPLKGQ-GLGWETTKEQ-AFLTSGTQFSDA-EGLALPQDGLYYLYCLVGYRGRAPPGGGDPQGRSV	DLNPELPAAHLIGAWMSGQ-GLSWEASQEEAFLRSGAQFSPT-HGLALPQDGVYYLYCHVGYRGRTPPA-GRSRARSL	AHSTLKPAAHLIGDPSKQNS-LLWRANTDRAFLQDGFSLSNNSLLVPTSGIYFVYSQVVFSGKAYSPKATSSPLYL	GLYFVYSQVVFSGESCSPRAIPTE	RTPSDKPVAHVVANPQAEGQ-LQWLNRRANALLANGVELRDNQLVVPSEGLYLIYSQVLFKGQGCPSTHVLL	o ⁿ ssdkpvahvvanhqveeq-lewlsqranallangmdlkdnqlvvpadglylvysqvlfkgqg <u>c</u> pDyvll
ن ن	LS-GV-L-NLVV	LIS-GVKYKKGGLVINET	LIS-GVKYKKGGLVINEA	MSNNLVTLENG-KQLTVKRQ	MKSNLVMLENG-KQLTVKRE	ALEEKENKIL-VKET	ALEEKENKI-VVRQT	KISN-MTLSNG-K-LRVNQD	KISN-MTFSNG-K-LIVNQD	FLSN-LHLRNG-E-LVIHEK	FLNH-VLFRNG-E-LVI EQE	ILH-GVRYQDGNLVIQFF	TIH-GLIYQDGNLIVQFP	FLTSGTQFSDA-EGLALPQD	FLRSGAQFSPT-HGLALPQD	FLQDGFSLSNNSLLVPTS	FLRHGFSLSNNSLLIPTS	LLANGVELRDNQLVVPSE	LLANGMDLKDNQLVVPAL
<u>B/B' loop</u>	A-U-WAAAA	SRS-IPLEWEDTYGTA	SRS-IPLEWEDTYGTA	KTT-SVLQWAEKGYYTI	NAA-SVLQWAKKGYYTI	KGSYTFVPWLLSFKR-GS	KGTYTFVPWLLSFKR-GN	SGSHKVTLSSWYHDRGWA	SGSHKVSLSSWYHDRGWA	VSKNEKALGRKINSWESSRSGH-S	ISKDGKTLGQKIESWESSRKGH-S	LMK-TKLSWNKDG	IMN-TKLSWNEDG	LKGQ-GLGWETTKEQA	MSGQ-GLSWEASQEEA	SKQNS-LLWRANTDRA	SKQNS-LLWRASTDRA	QAEGQ-LQWLNRRANA	QVEEQ-LEWLSQRANA
Ø	TANKET DKYNTH TICKSNISPS-MPI:EWEDTYGIVII.S-GVKYKK-GGIVINETGI.YFVYSKVYFRGOSCNNLPI	EKKEPRSVAHLTGNPH	ETKKPRSVAHLTGNPR	GDQNPQIAAHVISEASS	GDEDPQIAAHVVSEANS	VTODCLOLIADSETPTIQ	LRNIIODCLOLIADSDTPTIR	GKPEAOPFAHLTINAASIP	SKLEAOPFAHLTIÑATDIP	ERGPORVAAHITGTRGRSNTLSSPN	GGRPOKVAAHITGITRRSNSALIPI	RAPFKKSWAYLQVAKH	STPSKKSWAYLQVSKH	DLSPGLPAAHLIGAP	DINPELPAAHLIGAW	AHSTLKPAAHLIGDP	THGILKPAAHLVGYP	RTPSDKPVAHVVANP	QNSSDKPVAHVVANH
	9	37-	36-	16-	15-	42-	63-	57-	58-	16-	20-	92-	-16	82-	48-	-75	54-	82-	85-

FIG. 9B

	Consensus	1 Human FasL	9 Mouse FasL	8 Rat FasL	1 Human CD40L	0 Mouse CD40L	5 Human AGP3	9 Mouse AGP3	6 Mouse OPGL	7 Human OPGL	1 Human TRAIL	1 Mouse TRAIL	4 Human CD30L	9 Mouse CD30L	4 Human LyTβ	6 Mouse LyTβ	5 Human TNFβ	2 Mouse TNFβ	3 Human TNF α	5 Mouse TNF
		-281	-279	-278	-261	-260	-285	-309	-316	-317	-281	-291	-234	-239	-244	-306	-205	-202	-233	-235
	TFFGLFKL	Q-TFFGLYKL	K-TFFGLYKL	K-TFFGLYKL	F-TSFGLLKL	F-SSFGLLKL	DVTFFGALKLL	DDTFFGALKLL	A-TYFGAFKVQDID	A-TYFGAFKVRDID	A-SFFGAFLVG	A-SFFGAFLIN	VLSIFLYSNSD	VLSVFLYSSSD	K-TFFGAVMVG	K-TFFGAVMVG	T-VFFGAFAL	S-VFFGAFAL	GQVYFGIIAL	GQVYFGVIAL
H/I loop	SF	ELSLVNFEES	DLSLINFEES	QLSLINFEES	DPSQVSHGTG	EASQVIHRVG	RENAQISLDG	RENAQISRNG	NPSLLDPDQU	NPSLLDPDQU	NEHLIDMDHE	NEHLMDLDQE	IDTSTFPLEN	VDTNTFPLDN	HPDMVDFARG	HPDMVDYRRG	GIPHLVLSPS	GISHLHFSPS	RPDYLDFAES	LPKYLDFAES
Œ	-GD-LYVNV-	SADHLYVNVS	SADHLYVNIS	ADHLYVNIS	GASVEVNVT	AGASVFVNVT	SGDELQLAIP	SCDEIQLAIP	AGEEISIQVS	SGEEISIEVS	ENDRIEVSVT	KNDRIFVSVT	SVNVDTFQY	ISVRVDNFQY	RGERVYVNIS	SGERVYVNIS	QGDQLSTHTD	KGDQLSTHTD	KGDRLSAEIN	KGDQLSAEVN
O	WS-YLGGVF-LGD-LYVNVSFTFFGLFKL	TTGQMWARSSYLGAVFMLTSADHLYVMVSELSLVNFEESQ-TFFGLYKL	TTGQIWAHSSYLGAVFWLT:	SHKVYMRNFKYPGDLVLMEEKKLNYCTTGQIWAHSSYLGAVFWLTVADHLYVNISQLSLINFEESK-TFFGLYKL	GQQSIHLGGVFELQPGASVFVNVTDPSQVSHGTGF-TSFGLLKL	EQQSVHLGGVFELQAGASVFVNVTEASQVIHRVGF-SSFGLLKL	P-NNSCYSAGIAKLEEGDELQLAIPRENAQISLDGDVTFFGALKLL	P-NNSCYSAGIARLEEGDEIQLAIPRENAQISRNGDDTFFGALKLL	YLQLMVYVVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDPDQDA-TYFGAFKVQDID	YLQLMVYVTKTSIKIPSSHTLMKGGSTKYWSGNSEFHFYSINVGGFFKLRSGEEISIEVSNPSLLDPDQDA-TYFGAFKVRDID	K-NDKQMVQYIYKYTSYPDPILLMKSARNSCWSKDAEYGLYSIYQGGIFELKENDRIFVSVTNEHLIDMDHEA-SFFGAFLVG	AEYGLYSIYQGGLFELKI	KLELLINKHIKKQALVTVČESGMQTKHVYQNLSQFLLDYLQVNTTISVNVDTFQYIDTSTFPLENVLSIFLYSNSD	TLQLLINSKIKKQTLVTVCESGVQSKNIYQMLSQFLLHYLQVMSTISVRVDNFQYVDTNTFPLDNVLSVFLYS\$SD	TLRSSLYRAGGAYGPGTPELLLEGAETVTPVLDPARRQGYGPLWYTSVGFGGLVQLRRGERVYVNISHPDMVDFARGK-TFFGAVMVG	TLRSALYRAGGAYGRGSPELLLEGAETVTPVVDPIGYGSLWYTSVGFGGLAQLRSGERVYVNISHPDMVDYRRGK-TFFGAVMVG	AHEVQLFSSQYPFHVPLLSSQKMVYPGLQEPWLHSMYHGAAFQLTQGDQLSTHTDGIPHLVLSPST-VFFGAFAL	AHEVQLFSSQYPFHVPLLSAQKSVYPGLQGPWVRSMYQGAVFLLSKGDQLSTHTDGISHLHFSPSS-VFFGAFAL	THTISRIAVSYQTKVNLLSAIKSPCQRETPEGAEAKPWYEPIYLGGVFQLEKGDRLSAEINRPDYLDFAESGQVYFGIIAL	THTVSRFAISYQEKVNLLSAVKSPCPKDTPEGAELKPWYEPIYLGGVFQLEKGDQLSAEVNLPKYLDFAESGQVYFGVIAL
F/G loop		<u>/C</u>	<u> </u>	<u></u> 2,	SSAKPC	SSSOLC	ONMPETI	2NMPKTL	WSGN	LWSGN	CWSKD	WSRD	SESGMOTK	ESGVQSK	FPVLDPARRQ	rPVVDPI	YP	YP	CORETPEG	ZPKDTPEG
u.	-H-VVYPLLSTC	SHKVYMRNSKYPQDLVMMEGKMMSYCTT	PEDLVLMEEKRLN	PGDLVLMEEKKLN	LASLCLKSPGRFERILLRAANTHSSAKPC	IVGLWLKPSIGSERILLKAANTHSSSQLG	IQRKKVHVFGDELSLVTLFRCIQNMPETL	IQRKKVHVFGDELSLVTLFRCIQNMPKTL	PSSHNLMKGGSTK	PSSHTLMKGGSTK	PDPILLMKSARNS	PDPIVLMKSARNS	KHIKKQALVTV	SKIKKQTLVTV	GTPELLLEGAETV.	GSPELLLEGAETV	PFHVPLLSSQKMV	PFHVPLLSAQKSV.	'QTKVNLLSAIKSP	QEKVNLLSAVKSP(
E/F loop	Y	YMRNSKY	YMRNSKY	YMRNFKY	CLKSPG	WLKPSI	KVHVE	KVHVF	MVYVVKTSIKI	MVYVTKTSIKI	KQMVQYIYKYTSY	KQLVQYIYKYTSY	TIN	TIN	SLYRAGGAYGE	ALYRAGGAYGF	OLFSSOY	OLFSSQY	SRIAVSY	SRFAI
W	Λ−H−	.08- SHKV	5- NHKV	5- SHKV)- IASI	9- IVGI	2- IQRK	5- IQRF		35- YLQI	l- K-NL	O- KVR1	9- KLEI	1- TLQI	58- TLRS	.23- TLRS	32- AHEV	29- AHEV	53- THTI	55- THTV
		õ	ŏ	õ	ð	æ	~ i	რ	ň	m	0	Ħ	Ŋ	٠ <u>٠</u>	بي	7	m	7	Ŋ	ιŲ



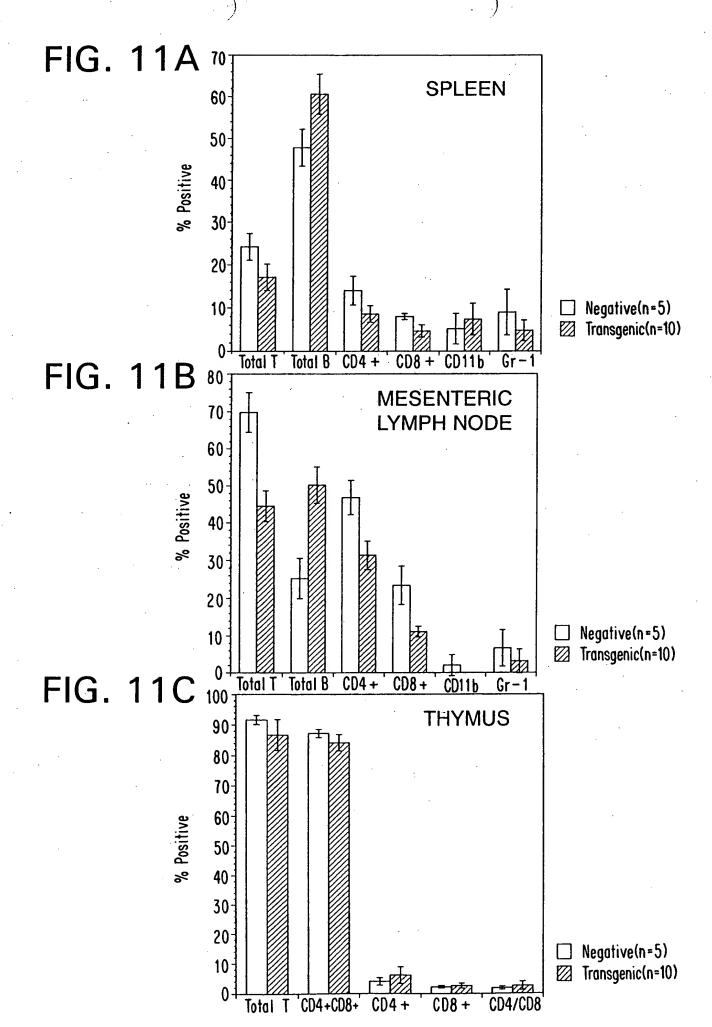


FIG. 12A

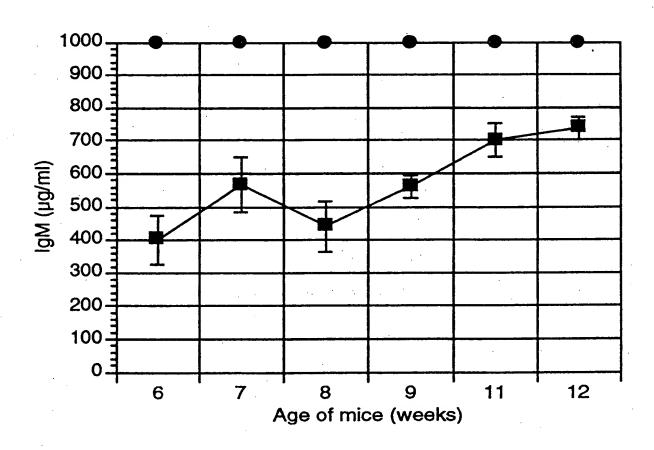


FIG. 12B

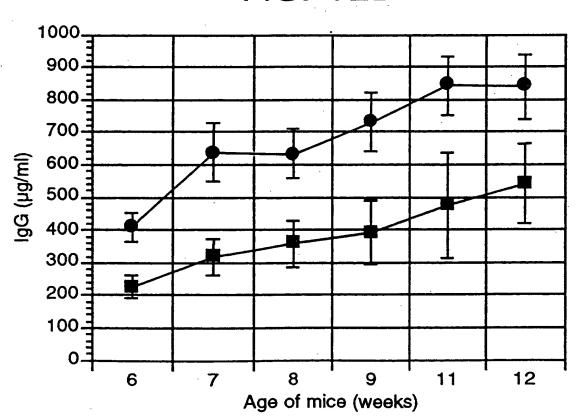


FIG. 12C

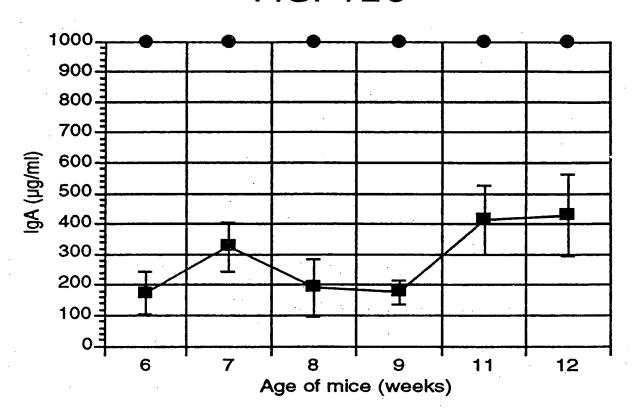
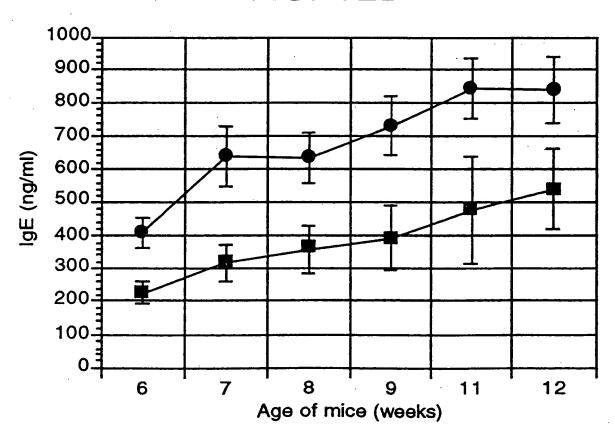
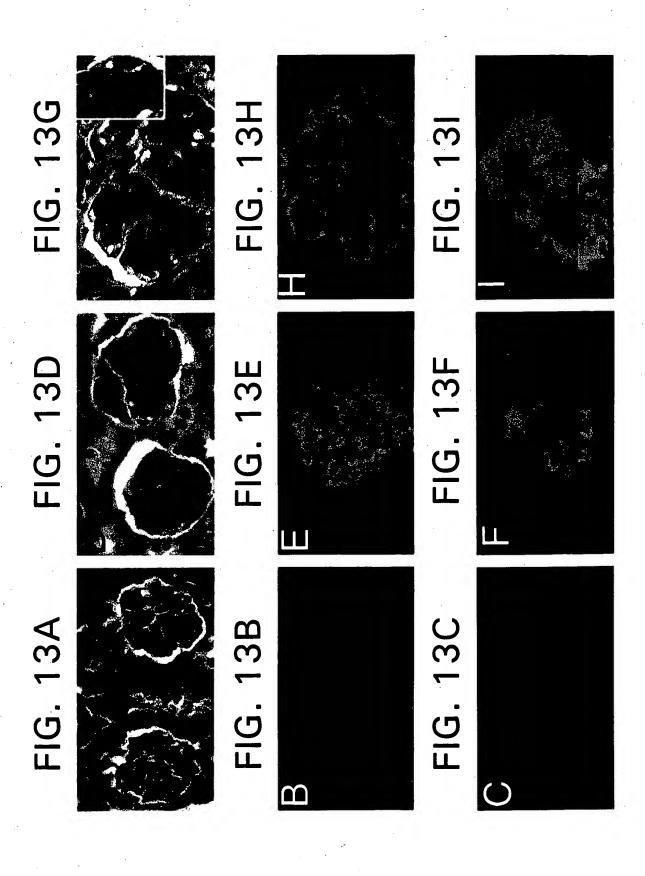


FIG. 12D





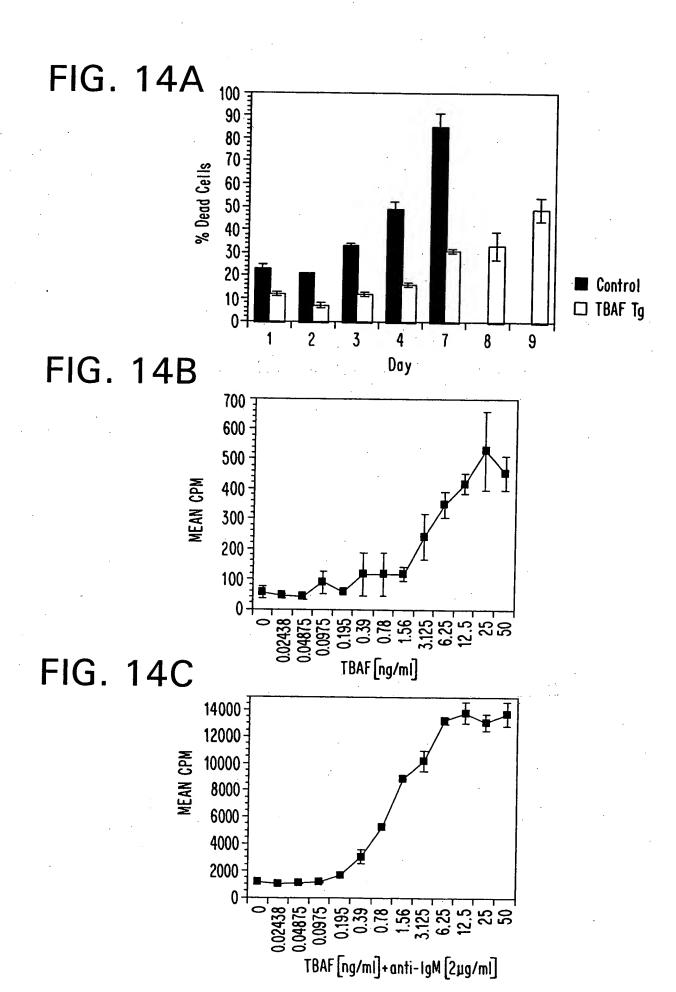


FIG. 15

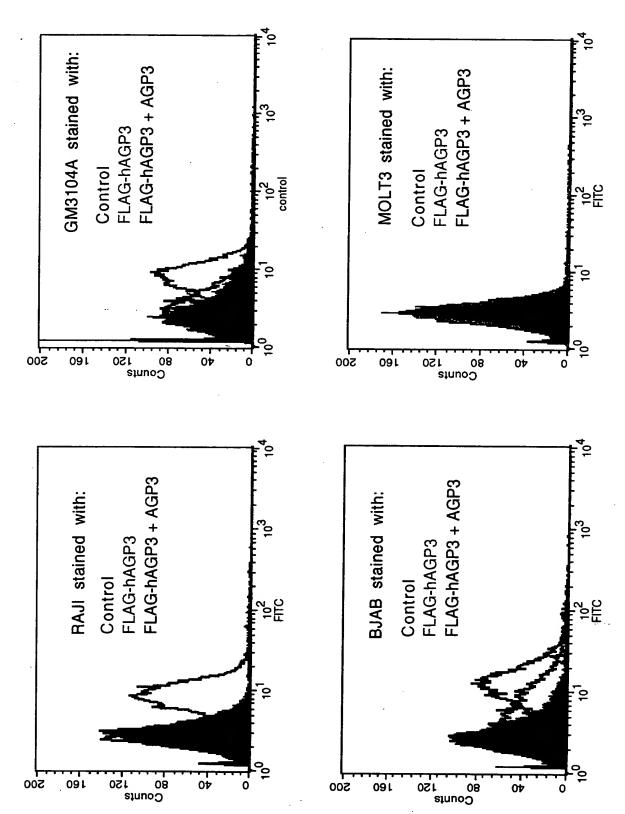


FIG. 16

Alignment of AGP3-binding pools 13B4 and 13H11 N-terminal sequence

1	GTCGACCCACGCGTCCGATCCTGAGTAATGAGTGGCCTGGGCC	43
1	GTCGACCCACGCGTCCGAATAAGCATCCTGAGTAATGAGTGGCCTGGGCC	50
44	GGAGCAGGCGAGGCGGAGCCGTGTGGACCAGGAGGAGCGCTTTCCA	93
51		100
94	CAGGGCCTGTGGACAGGGGTGGCTATGAGATCCTGCCCCGAAGAGCAGTA	143
101	CAGGGCCTGTGGACAGGGGTGGCTATGAGATCCTGCCCCGAAGAGCAGTA	150
144	CTGGGATCCTCTGCTGGGTACCTGCATGTCCTGCAAAACCATTTGCAACC	193
151	CTGGGATCCTCTGCTGGGTACCTGCATGTCCTGCAAAACCATTTGCAACC	200
194	ATCAGAGCCAGCGCACCTGTGCAGCCTTCTGCAGGTCACTCAGCTGCCGC	243
201	ATCAGAGCCAGCGCACCTGTGCAGCCTTCTGCAGGTCACTCAGCTGCCGC	250
244	AAGGAGCAAGTTCTATGACCATCTCCTGAGGGACTGCATCAGCTG	293
251	AAGGAGCAAGTTCTATGACCATCTCCTGAGGGACTGCATCAGCTG	300
294	TGCCTCCATCTGTGGACAGCACCCTAAGCAATGTGCATACTTCTGTGAGA	343
301	TGCCTCCATCTGTGGACAGCACCCTAAGCAATGTGCATACTTCTGTGAGA	350
344	ACAAGCTCAGGAGCCCAGTGAACCTTCCACCAGAGCTCAGGAGACAGCGG	393
351	ACAAGCTCAGGAGCCCAGTGAACCTTCCACCAGAGCTCAGGAGACAGCGG	400

Human AGP3 receptor sequence

GTCGACCCACGCGTCCGATCCTGAGTAATGAGTGGCCTGGGCCGGAGCAGGCGAGGTGGC M S G L G R S R R G G CGGAGCCGTGTGGACCAGGAGGAGCGCTTTCCACAGGGCCTGTGGACAGGGGTGGCTATG R S R V D Q E E R F P Q G L W T G V A M AGATCCTGCCCGAAGAGCAGTACTGGGATCCTCTGCTGGGTACCTGCATGTCCTGCAAA R S C P E E Q Y W D P L L G T C M S C K ACCATTTGCAACCATCAGAGCCAGCGCACCTGTGCAGCCTTCTGCAGGTCACTCAGCTGC T I C N H Q S Q R T C A A F C R S L S C CGCAAGGAGCAAGTCTATGACCATCTCCTGAGGGACTGCATCAGCTGTGCCTCC R K E Q G K F Y D H L L R D C I S C A S ATCTGTGGACAGCACCCTAAGCAATGTGCATACTTCTGTGAGAACAAGCTCAGGAGCCCA I C G Q H P K Q C A Y F C E N K L R S P GTGAACCTTCCACCAGAGCTCAGGAGACAGCGGAGTGGAGAAGTTGAAAACAATTCAGAC V N L P P E L R R Q R S G E V E N N S D AACTCGGGAAGGTACCAAGGACTGGAGCACAGAGGCTCAGAAGCAAGTCCAGCTCTCCCG N S G R Y Q G L E H R G S E A S P A L P GGGCTGAAGCTGAGTGCAGATCAGGTGGCCCTGGTCTACAGCACGCTGGGGCTCTGCCTG G L K L S A D Q V A L V Y S T L G L C L TGTGCCGTCCTCTGCTGCTTCCTGGTGGCGGTGGCCTGCTTCCTCAAGATGAGGGGGGAT C A V L C C F L V A V A C F L K M R G D CCCTGCTCCTGCCAGCCCCGCTCAAGGCCCCGTCAAAGTCCGGCCAAGTCTTCCCAGGAT P C S C Q P R S R P R Q S P A K S S Q D CACGCGATGGAAGCCGGCAGCCCTGTGAGCACATCCCCCGAGCCAGTGGAGACCTGCAGC HAMEAGS PVS TS PEPVE TCS TTCTGCTTCCCTGAGTGCAGGGCGCCCACGCAGGAGAGCGCAGTCACGCCTGGGACCCCC F C F P E C R A P T O E S A V T P G T P GACCCACTTGTGCTGGAAGGTGGGGGTGCCACACCAGGACCACAGTCCTGCAGCCTTGC D P T C A G R W G C H T R T T V L O P C P H I P D S G L G I V C V P A Q E G G P

FIG. 18

AGP3 receptor protein structure

MSGLGRSRRGGRSRVDQEERFPQGLWTGVAMR

SCPEEQYWDPLLGTCMSCKTICNHQSQRTCAAFCRSL	I
SCRKEQGKFYDHLLRDCISCASICGQHPKQCAYFCENK	II
LRSPVNLPPELRRQRSGEVENNSDNSGRYQGLEHRGSE ASPALPGLKLSADQVAVYS	stalk
TLGLCLCAVLCCFLVAVACFL	TM
KMRGDPCSCQPRSRPRQSPAKSSQDHAMEAGSPVSTSP EPVETCSFCFPECRAPTQESAVTPGTPDTCAGRWGCHT RTTVLOPCPHIPDSGLGLVCVPAOEGGPGA	IC

Alignment of AGP3 receptor and TNFR1 extracellular domain

10	20	30	40	50	60	
LGRSRRGGRSRVD	QEERFPQGLWT	GVAMRSCPE	EQYWDPLLG1	TCMSCKTICNH	QS-QR	AGP3R
		:	: ::	::	:	
VLLELLVGIYPSG	VIGLVPHLGDR	EKRDSVCPQ	GKYIHPQNNS	ICC-TKCHK	GTYLYN	TNFR1
20	30	40	50	60	70	
70	80	90	100	110		
TCAAFCRSLSCRK-EQGKF-YDHLLRDCISCASICGQHPKQCAYFCENKLRSPVNLPPE						AGP3R
	: :: :]: [:[:[:: [] [:	::	1	
DCPGPGQDTDCRECESGSFTASENHLRHCLSC-SKCRKEMGQVEISSCTVDRDTVCGCRK						TNFR1
80	90	100	110	120		

blass of the second of the sec

Human AGP3 receptor mRNA tissue distribution

